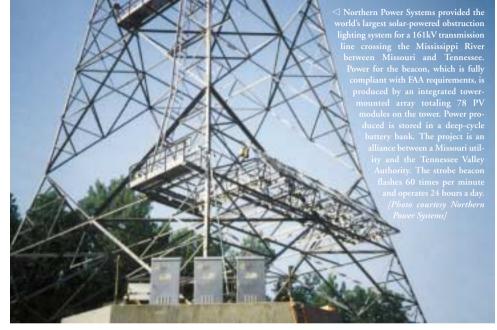
long America's waterways, one of the earliest terrestrial uses of PV are navigational buoys and other aids to navigation. The loads required for these applications are typically small, the installations are remote, and the utility grid is not generally accessible, making PV a perfect match for this use.

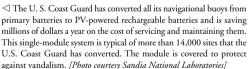
Applications may range from lighthouse beacon power to a small single-module system posted on a lonely stretch of riverbank. But because these signals, sirens, and lights are all lifesaving measures, system reliability is paramount. PV provides that critical reliability.

The United States Coast Guard has converted all its navigational buoys from primary batteries to PV-powered rechargeable batteries, thus saving millions of dollars in battery replacement costs alone.

In fact, warning signs, signals and lights—typically navigational beacons—are one of the most popular applications for PV in the

popular applications for PV in United States.





▷ A 100W Solar Electric Power assembly operates a digital camera monitoring system, which scans a major waterway for marine traffic. The system operation and location are confidential, but this type of high security system is growing popular for many applications. Similar systems operate recording devices, power alarms, and power remote video surveillance systems, to name just a few security-type applications. [Photo courtesy SEPCO™ – Solar Electric Power Company, Ltd.]

Photovoltaics powers the navigational light at the Bureau of Land Management's Turn Point Light Station, Stuart Island, San Juan Islands, Washington. [Photo courtesy Sandia National Laboratories]





